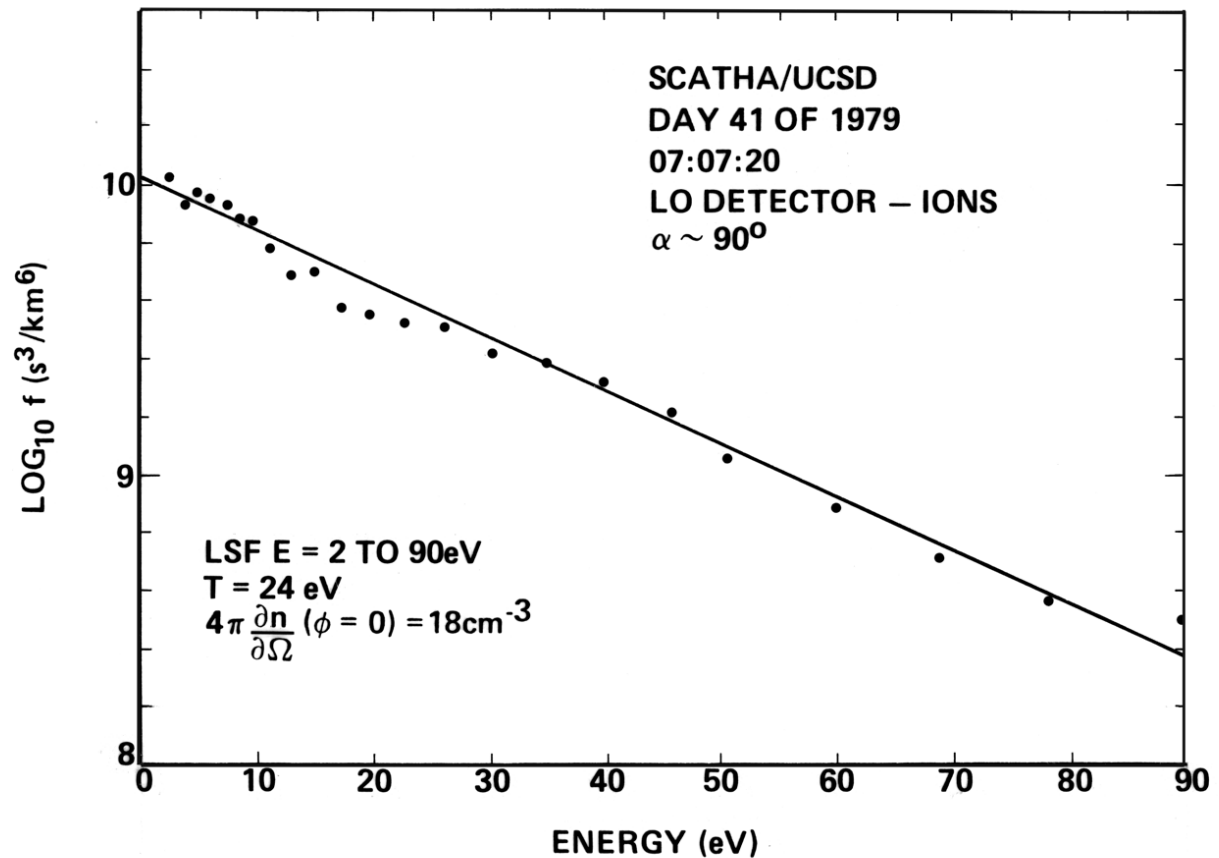


More slides from day 41

From the ursi talk

Low Energy Ion DF

- Electrostatic analyzer (differential measurement)
- Temperature and density are consistent with the LIMS mass spectrometer (RPA) results. (next slide)

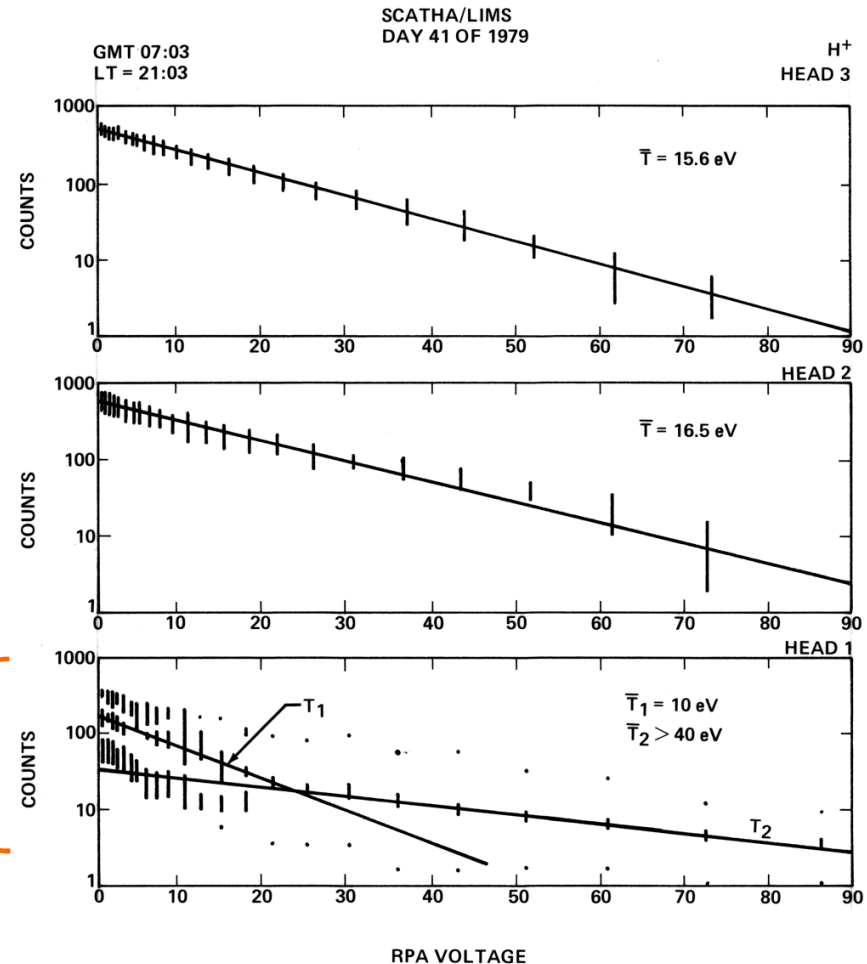


Low Energy Ion Flux

- Retarding Potential Analyzer (integral measurement) with fits for temperature.

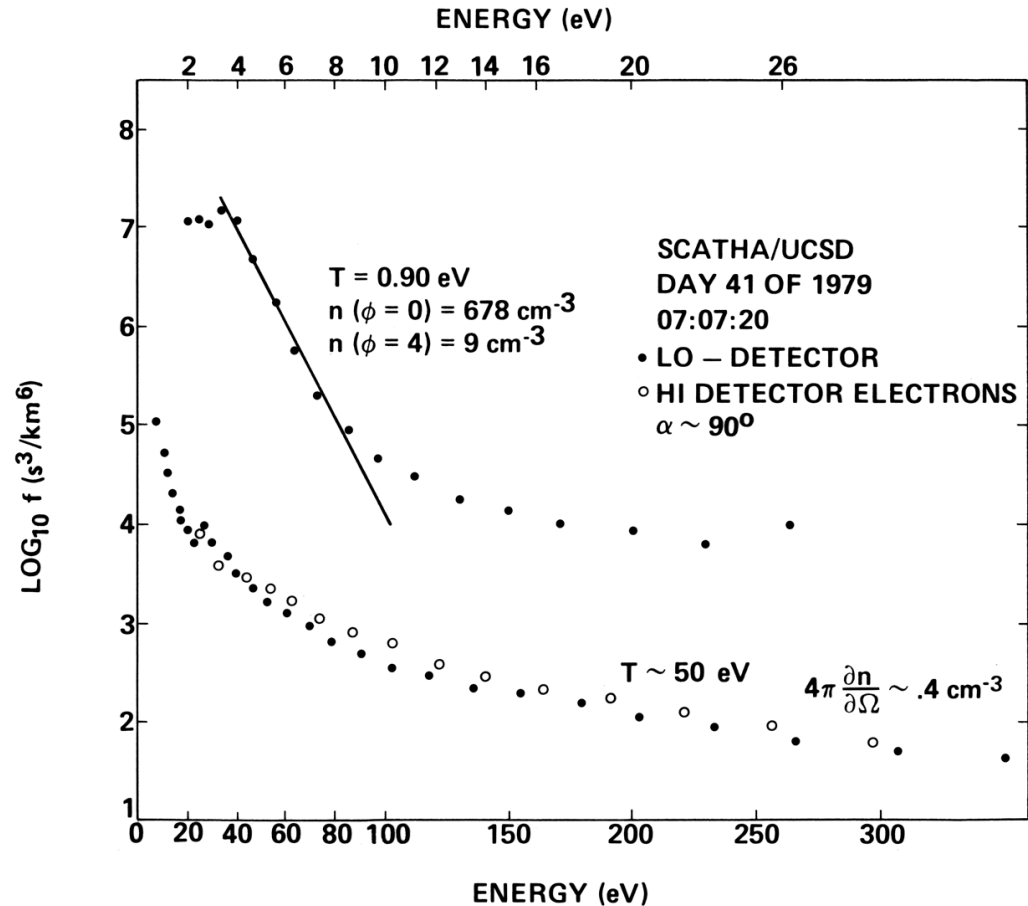
- Heads 2&3 view along the spin axis, which is roughly aligned with $\alpha=90^\circ$

- Head 1 views perpendicular to the spin axis, and samples both field-aligned and equatorially trapped ions.



Low Energy Electron DF

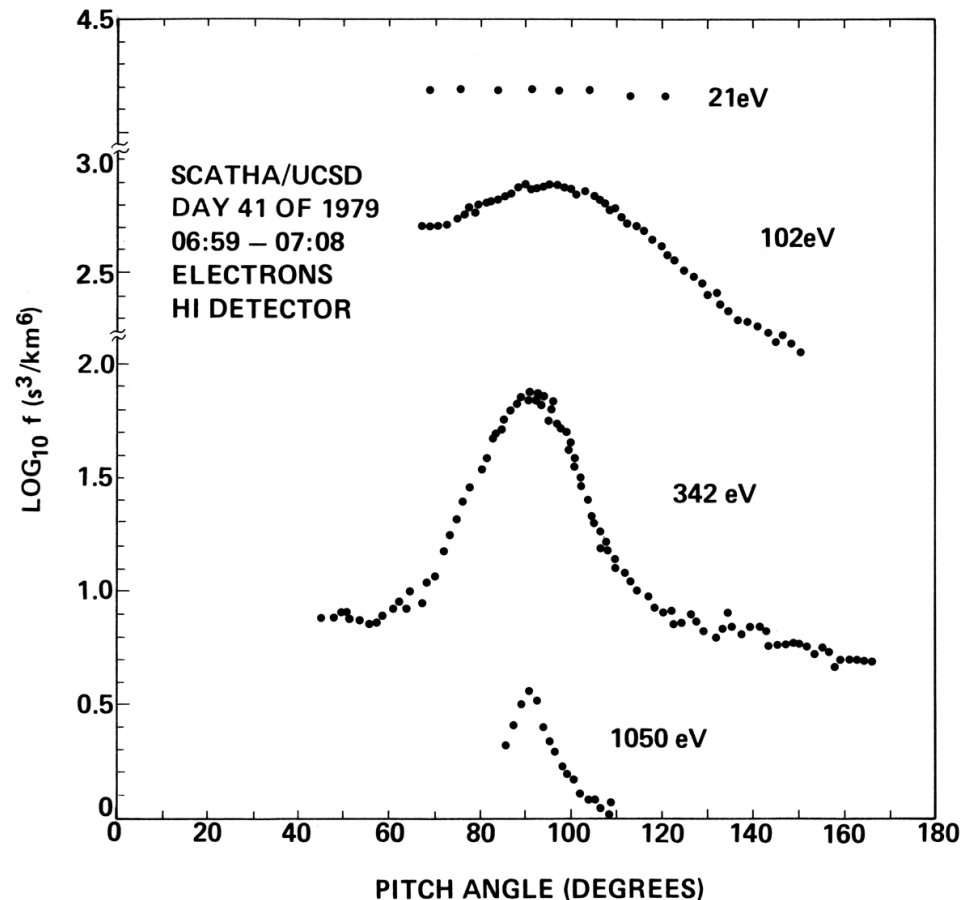
- Two curves on split energy scales (top/bottom) with fits to estimate temperature.
- The electrons distributions are not really Maxwellian, but there is a fairly dense, cold electron background, consistent with being in the plasmasphere – the spacecraft potential is probably about +4V, the ion and electron densities about 10 cm^{-3} .



Low Energy Electron Pitch Angle Distribution

Equatorially
Trapped
Electrons

The
anisotropy is
not as great
as with the
ions



Return to
URSI talk